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APPLICATION NO	). F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/672,880		09/29/2000	Tatsuhiro Nakada	· 500.39117X00	9478
24956	7590	09/13/2005		EXAMINER	
		NGER, MALUR	JONES, P	JONES, PRENELL P	
1800 DIAG SUITE 370	GONAL RO	DAD		ART UNIT	PAPER NUMBER
	DRIA, VA	22314		2667	-

DATE MAILED: 09/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Supplemental Notice of Allowability

Application No.	Applicant(s)	
09/672,880	NAKADA, TATSUHIRO	
Examiner	Art Unit	
Prenell P. Jones	2667	

	Prenell P. Jones	2667	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not include will be mailed in due	ed course. <b>THIS</b>
1. This communication is responsive to <u>9/29/04</u> .			
2. X The allowed claim(s) is/are 1,2,4,6,7,14,15,17,19,20,26,27	and 30.		
<ol> <li>Acknowledgment is made of a claim for foreign priority until a) All b) Some* c) None of the:         <ol> <li>Certified copies of the priority documents have</li> <li>Certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority documents have</li> <li>Copies of the certified copies of the priority documents have</li> <li>Tertified copies hav</li></ol></li></ol>	been received. been received in Application No cuments have been received in this communication to file a reply received in this received	national stage applica	
<ul> <li>THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.</li> <li>4. A SUBSTITUTE OATH OR DECLARATION must be subminished in INFORMAL PATENT APPLICATION (PTO-152) which give some subminished in the subminishe</li></ul>	es reason(s) why the oath or declarant be submitted. on's Patent Drawing Review (PTO-S s Amendment / Comment or in the O .84(c)) should be written on the drawin	tion is deficient.  948) attached  ffice action of	
DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I	sit of BIOLOGICAL MATERIAL n	nust be submitted. I	Note the
·			
<ul> <li>Attachment(s)</li> <li>1. ☐ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 2/10/05</li> <li>4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	5. Notice of Informal P 6. Interview Summary Paper No./Mail Dat 7. Examiner's Amendn 8. Examiner's Stateme 9. Other	(PTO-413), e nent/Comment	
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## Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on February 10, 2005 was filed after the mailing date of the Notice of Allowance on January 24, 2005. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the examiner is considering the information disclosure statement.

## Allowable Subject Matter

- 1. Claims 1, 2, 4, 6, 7, 14, 15, 17, 19, 20, 26, 27 and 30 are allowed over prior art.
- 2. The following is an examiner's statement of reasons for allowance: Applicant has amended claims to correct previous 112, second paragraph rejection, and Applicant has canceled previously rejected claims 3-5, 8-13, 16, 18, 21-25, 28, 29 and 31-36.

Although the prior art discloses a receiver for OFDM modulated transmission signal, wherein there includes sample sequence data for determining a cross-correlation calculator, calculate cross-correlation values, synchronizing symbols are added to frames, detecting synchronizing patterns in sample sequence, sample clock sequence, controlling clock frequency in response to time intervals, a controllable clock generator used to produce receiver sampling clock sequence with controllable sampling data, reproductions of synchronizing symbols are synchronization patterns, production of an auxiliary/main synchronizing symbols, and it is preferred that synchronizing symbol produces a sharp autocorrelation peak, voltage controlled oscillator, frame/symbol clock sequences, a selector that compares correlation values with respect to their peaks, a multi-carrier transmission system associated with OFDM signaling wherein the

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architecture includes system controller, symbol detection, sampling clock controlled by frame time estimator, correlator and peak estimator (correlation arithmetic), transmitter/receiver devices, inter-symbol interference peak detector for detecting peak levels, sampling clock generated by a voltage controlled crystal oscillator, predefined symbol carriers define inter-symbol interference, a receiver for multi-carrier signals that are transmitted by OFDM which includes estimation/correction circuit, wherein the architecture includes correlation circuits that have peak tracking, difference signal for samples, first symbol carrier and inter-symbol interference carrier, peaks are detected by peak detectors, FFT windows necessary for signal reconstruction, FFT window synchronization circuit and frame/symbol periods, frequency controller suspends control of the controllable oscillator, and the interference in minimized with respect to the carrier modes they fail to teach/suggest in a predetermined time window provided with position of a null symbol, and obtaining cross-correlation peaks in a principle wave, and reflected wave in a comparison of cross correlation value with a predetermined value, an interference discrimination unit coupled with a correlation arithmetic operation unit, for detecting which peak is a less inter-symbol interference in a cross-correlation peaks obtained from a principle wave and reflected wave.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prenell P. Jones whose telephone number is 571-272-3180. The examiner can normally be reached on 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Prenell P. Jones

September 6, 2005